

VAYNERMAN, A. E. (Engineer) (Vyborg)

"Welding of copper and its alloys with steel". A number of methods of welding and hard-facing of copper on steel were tested. Properties of such welds under various operating conditions were studied.

Report presented at the 1st All-Union Conference on welding of heterogeneous metals, at the Inst of Electric Welding im. Ye. O. Paton, 14-15 June 1963.
(Reported in Avtomaticheskaya svarka, Kiev, No. 9, Sept 1963, pp 95-96 author, V. R. Ryabov)

JPRS 24,651

19 May 64

VAYNERMAN, A.Ye., inzh.

Experience in gas-arc metal cutting. Sudostroenie 25 no.6:44
Je '59. (MIRA 12:9)

(Gas welding and cutting)

18(0), 25(1)

SOV/125-12-4-10/18

AUTHOR: Vaynerman, A. Ye., Engineer, Leningrad

TITLE: Arc Welding of Copper and Copper-Nickel Alloys With Steel

PERIODICAL: Avtomaticheskaya svarka, 1959, Vol 12, Nr 4, pp 84-86 (USSR)

ABSTRACT: The author presents several tests of arc welding copper with steel. For the investigation, low carbon steel type St.4s and copper type M1 was used. For corner weld and butt weld, copper electrodes with "Komsomolets" coating on TU 7404-77-56 was used. The welding was done with or without preheatings. Preheating was carried out with an acetylene-oxygen flame, in a furnace or with coal-electrodes. The copper and steel-plates were 3 mm thick, in accordance the diameter of the electrode was 3 mm, current 110 to 120 A. The investigation has shown the possibility of arc welding copper or copper-nickel alloys and steel with "melting electrodes". There are 2 diagrams, 2 tables and 4 Soviet references.

ABSTRACTED:

December 30, 1958

VAYNERMAN, A.Ye.

Welding of notched framework elements to aluminum-magnesium
alloy plating. Sudostroenie 28 no.6:53 Je '62. (MIRA 15:6)
(Hulls (Naval architecture)--Welding)

VAYNERMAN, A.Ye. (Vyborg)

Welding copper with steel. Avtom. svar. 16 no. 12:79-82
D '63. (MIRA 17:1)

VAYNERMAN, Abram Yefimovich; FEDOTOV, L.Ye., red.

[Technology of electric arc welding of copper and steel]
Tekhnologiya elektrodugovoi svarki medi so stal'iu. Leningrad, 1963. 19 p. (Leningradskii dom nauchno-tekhniche-
skoi propagandy. Seria: Svarka, rezka i paika metallov, no.7)
(MIRA 17:4)

~~VAYNERMAN, Abram Yefimovich~~; MATSOV, M.M., inzh., retsenzent;
SHRAYERMAN, M.R., kand. tekhn. nauk, retsenzent; RUSSO,
V.L., nauchn. red.; SHISHKOVA, L.M., tekhn. red.

[Welding of hull structures in a carbon dioxide atmosphere]
Svarka korpusnykh konstrukttsii v srede uglekislogo gaza.
Leningrad, Sudpromgiz, 1963. 147 p. (MIRA 16:9)
(Ships--Welding) (Protective atmospheres)

VAYNERMAN, A.Ye., inzh.

Reducing the iron content in the deposition of copper and its alloys on steel. Svar.proizv. no.2:21-23 F '64.

(MIRA 18:1)

VAYNERMAN, A.Ye.; VESELKOV, V.D.; IONOV, V.P.; VASIL'YEVA, L.A.

Mechanization of welding operations on building ways. Avtom.
svar. 18 no.8:58-59 Ag '65. (MIRA 18:11)

1. Submitted February 26, 1965.

L 26093-66 EWP(k)/EWT(d)/EWT(m)/EWP(h)/I/EWA(d)/EWP(l)/EWP(w)/EWP(v)/EWP(t) IJP(c)

ACC NR: AP6015041 (N) JD/HN/JG SOURCE CODE: UR/0125/66/000/004/0054/0056 59

AUTHOR: Vaynerman, A. Ye. (Vyborg); Veselkov, V. D. (Vyborg) B

ORG: none

TITLE: Automatic plasma torch deposition of stainless steels on perlitic steels

SOURCE: Avtomaticheskaya svarka, no. 4, 1966, 54-56 18 18

TOPIC TAGS: metal deposition, stainless steel, steel deposition, plasma torch deposition/06Kh19N9T steel, 02Kh19N9 steel, 09G2 steel

ABSTRACT: A method for automatic argon-plasma deposition of stainless steel on low-alloy steel has been developed at the Institute of Metallurgy in Baykov. The method uses an IMET-107 plasma torch with a lanthanum-modified-tungsten electrode 4-5 mm in diameter, and filler wire which functions as a conventional consumable electrode. With this method, 06Kh19N9T or 02Kh19N9 stainless steels from a filler wire 2 mm in diameter were deposited on 09G2 steel plate 12 mm thick with the plasma torch oscillated across its pass at a rate of 40 cycles/min and an amplitude of 20 mm. The deposition rate reached 7 kg/hr; the bead was 26-28 mm wide and 5.5-6.0 mm high. The deposited metal has an austenitic structure with a ferrite content of about 8%. Such composition increases resistance against intercrystalline corrosion and hot cracks. No penetration of deposited metal into the base metal was observed. Orig.

art. has: 5 figures and 2 tables.

SUB CODE: 11, 13/ SUBM DATE: 28Oct65/ ORIG REF: 004/ ATD PRESS: 4254 [AZ]

Card 1/1 UDC: 621.791.92:669.15-194:537.525

L 43944-66 EWT(m)/EWP(k)/T/EWP(v)/EWP(t)/ETI IJP(c) JH/JD/IM

ACC NR: AP6027431

SOURCE CODE: UR/0125/66/000/007/0050/0053

AUTHOR: Lapchinskiy, V. F.; Potap'yevskiy, A. G.; Steblovskiy, B. A.;
Vaynerman, A. Ye. (Vyborg) 46BORG: Electric Welding Institute im. Ye. O. Paton, AN UkrSSR (Institut elektrosvarki AN UkrSSR)TITLE: Pulsed-power argon-shielded arc welding of aluminum alloysSOURCE: Avtomaticheskaya svarka, no. 7, 1966, 50-53TOPIC TAGS: ~~aluminum~~ manganese alloy, aluminum alloy, welding, pulsed ~~power~~ welding, inert gas welding/AMg6 aluminum alloy

ABSTRACT: The effect of pulse duration and frequency in argon-shielded pulsed-power welding on the shape and dimensions of AMg6 aluminum-magnesium alloy welds has been investigated. Alloy sheets and plates 2.5—25 mm thick were welded with SvAMg6 wire and A- or B-grade argon. The arc behavior was recorded by a high-speed movie camera synchronized with an oscilloscope. It was found that as the pulse duration increases, the electrode burn-up rate and the width of the weld increase, but the depth of penetration and the height of reinforcement first increase and then decrease (see Fig. 1a). With increasing pulse frequency, the electrode burn-up rate and depth of penetration increase at all welding positions (Fig. 1b). In welding AMg3, AMg5B, AMg6 and AMg61 aluminum alloys, the use of pulsed power reduces considerably the weld porosity and

Card 1/3

UDC: 621.791.856.669.71

L 43044-66

ACC NR: AP6027431

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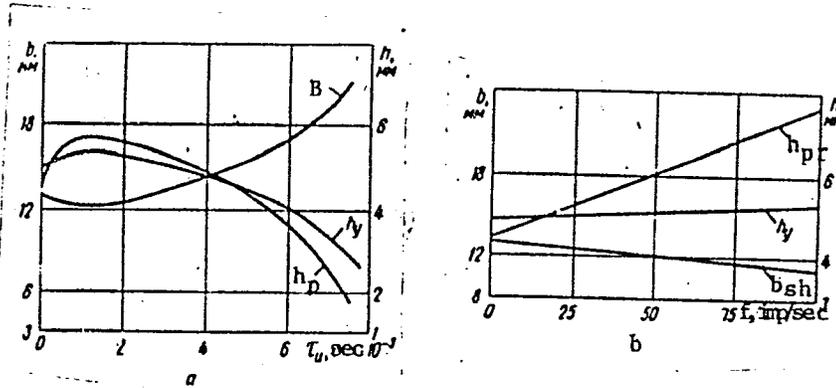


Fig. 1. Effects of pulse duration (a) and frequency (b) on width (B), depth of penetration (h_p) and height of reinforcement (h_y) of pulsed-power welds.

the amount of smoke as compared to conventional MIG welding. Pulsed-power welds in plates 10—25 mm thick had a strength of 27.9—29.4 kg/mm² and a bend angle of 53—72°, generally better than those of conventional MIG welds. Pulsed-power welding is suitable for all positions. It increases the output by 200—400%, and lowers the

Card 2/3

L 43944-66

ACC NR: AP6027431

argon consumption by 60—90%, the welding costs by 60—80% and the residual deformation by 20—30% compared to manual TIG welding. Orig. art. has: 2 figures and 3 tables. [TD]

SUB CODE: 11, 13/ SUBM DATE: 22Feb66/ ORIG REF: 005/ ATD PRESS: 506 /

Card 3/3 hs

VAYNERMAN, R. Ya.

Skorostnaya obrabotka sudov po chasovomu grafiky (Speeding up loading and unloading on ships according to the hourly schedule, by) R. Ya. Vaynerman, M. I. Isayev, L. A. Ogloblin. Moskva, Izd-vo "Morskoy Transport", 1952. 137 p. illus., tables, diags.

N/5
756.545
.43

MARTYNOVA, O.I., doktor tekhn.nauk, prof.; KATKOVSKAYA, K.Ya., kand.tekhn.nauk;
FEODOSEYCHUK, T.A., inzh.; VAYNEYKIS, A.A., inzh., dissertant;
DUBROVSKIY, I.Ya., inzh.

Transition of ammonia from water solutions to saturated steam.
Teploenergetika 12 no.10:75-79 0 '65.

(MIRA 18:10)

1. Moskovskiy energeticheskiy institut.

VAYNEYKIS, E. A.:

VAYNEYKIS, E. A.: "The problem of the electrical and structural properties of thin layers of silver." Vil'nyus State U imeni V. Kapsukas. Vil'nyus, 1956. (Dissertation for the Degree of Candidate in Physicomathematical Science)

Source: Knizhnaya letopis' No 40 1956 Moscow

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859110017-8

APPROVED FOR RELEASE: 08/31/2001

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CIA-RDP86-00513R001859110017-8

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859110017-8"

VAYNFEL'D, A.A.; PRILUTSKIY, I.K.; FOTIN, B.S.

Experimental determination of temperatures of the working-chamber
parts of piston compressors. Trudy LPI no.249:81-87 '65.
(MIRA 18:9)

ADAMOVICH, P.V.; BATURIN, V.V.; VAKHVAKHOV, G.G.; VAYNGAUZ, L.G.;
VILENSKIY, Ye.Ya.; GAMBURG, P.Yu.; DAVYDOV, Yu.S.; KARPIS,
Ye.Ye.; KUZNETSOVA, Z.I.; KOPIYEV, S.F.; LIVCHAK, I.F.;
LOBACHEV, P.V.; LEV, G.M.; NOTKIN, Ye.M.; PIRUMOV, A.I.;
POLIKARPOV, V.F.; PROTOPOPOV, A.P.; REPIN, N.N.; SLADKOV,
S.P.; TALYEV, V.N.; TROITSKAYA, F.B.; FEDOROV, M.N.;
SHEVELEV, F.A.; SHKABEL'NIKOVA, L.P.; SHCHUTSKIY, A.I.;
SMIRNOV, L.I., inzh., nauchnyy red.; SMIRNOVA, A.P., red.
izd-va; MOCHALINA, Z.S., tekhn. red.; RODINOVA, V.R., tekhn.
red.

[Present level and prospects for the development of sanitary engineering and the production of sanitary engineering equipment] Sovremenniy uroven' i perspektivy razvitiya sanitarnoi tekhniki i proizvodstva sanitarno-tekhnicheskogo oborudovaniia. Moskva, Gosstroizdat, 1962. 283 p. (MIRA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut sanitarnoy tekhniki.

(SANITARY ENGINEERING)

VAYNGORT, L.

11669

USSR/Cities - Poltava 5108.0500 Jan 1947

"Reconstruction of Poltava," L. Vayngort, 3 pp

"Arkh i Stroi" Vol II, No 1

Limited and general details on reconstruction work in the subject city, reference to zoning regulations. Article includes photographs of important buildings and architect's sketch of the city plan.

ID

11669

SHVARTSVASSMR, I.P.; VAYNGRIB, L.G.

Acute hemorrhagic encephalitis following administration of osarsol.
Sov.med. 20 no.5:76-77 My '56. (MLRA 9:9)

(ACETARSONE, injurious effects,
encephalitis, hemorrh. (Rus))

(ENCEPHALITIS, etiology and pathogenesis,
acetarsone (Rus))

VAYNGRIB, L.G., kapitan med.sluzhby

Use of novocaine with calcium chloride in acute dysentery. Voen.
med.shur. no.3:73-74 Mr '57. (MIRA 11:3)

(DYSENTERY, BACILLARY, therapy,
calcium chloride with procaine (Rus)
(PROCAINE, therapeutic use,
dysentery, bacillary, with calcium chloride (Rus)
(CHLORIDES, therapeutic use,
dysentery, bacillary, with procaine (Rus)

VAYNGRIB, L.G., kapitan med. sluzhby; USETIMSKIY, N.F., mayor med. sluzhby;
PALAGIN, Ye.M., kapitan med. sluzhby

Trichomoniasis of the vermiform appendix. Voen.-med. zhur no.5:
90-91 My '57 (MIRA 12:7)
(TRICHOMONIASIS) (APPENDIX (ANATOMY))

VAYNGRIB, L.G.

VAYNGRIB, L.G.

Clinical aspects of intestinal trichomoniasis [with summary in English]. Med.paraz. i paraz.bol. 26 no.3:311-316 My-Je '57.
(MIRA 10:11)

(GASTROINTESTINAL DISEASES, case reports,
trichomoniasis (Rus))
(TRICHOMONIASIS, case reports,
intestinal (Rus))

VAYNGRIB L.G.

VAYNGRIB, L.G. (Nebit-Dag, Turkmenkaya SSR)

Some peculiarities in the clinical course of Botkin's disease under conditions of a hot climate in western Turkmenia. Klin.med.35 [i.e.34] no.1 Supplement:35 Ja '57. (MIRA 11:2)
(TURKMENISTAN--HEPATITIS, INFECTIOUS)

VAYNTRIB, L.G.; BYSTROV, M.N.

Liver abscess with *Trichomonas intestinalis* (*Trichomonas hominis*
Davaine) Sov.med. 22 no.3:132-133 Mr '58. (MIRA 11:4)
(LIVER, abscess
in trichomoniasis intestinalis (Rus))
(TRICHOMONIASIS, compl.
liver abscess in trichomoniasis intestinalis (Rus))

VAYNGHIB, L.G.; POLYANKER, Ye.B.

Etiological role of asymptomatic carrying of *Lamblia* in the development
of chronic bacillary dysentery in western Turkmenistan. Zhur.
mikrobiol. epid. i immun. 29 no.3:126 Mr '58. (MIRA 11:4)
(GIARDIASIS) (TURKMENISTAN--DYSENTERY)

VAYNGRIB, L.G.; DOROFYEV, N.Z. (Nebit-dag, Turkmenkaya SSR)

Lesions of the paranasal sinuses in Asian influenza (virus A2). Vest.
otorin. 21 no.2:33-35 Mr-Apr '59. (MIRA 12:4)

(INFLUENZA, pathol.)

Asian, paranasal sinus lesions (Rus))

(PARANASAL SINUSES, in var. dis.

influenza, Asian (Rus))

VAYNIKHOVICH, L.M.; IGNAT'YEVA, Z.I. (Nikolayev)

Porphyrin disease. Vrach.delo no.10:1083-1085 0 '59. (MIRA 13:2)
(SKIN--DISEASES)

VAYNIKHOVICH, S.L.

Semiautomatic machine for simultaneous drilling of 22 holes
in plates for electronic devices. Priborostroenie no.9:21-22
S '62. (MIRA 15:9)

(Drilling and boring machinery)

VAYNIKHOVICH, S. L. Cand Tech Sci -- (diss) "A new method of profiling hobbing cutters for the cutting of small-module cycloid-^{mesh}gearing wheels." Mos, 1959. 27 pp with ^{drawings}~~diagrams~~ (Min of Higher and Secondary Specialized Education RSFSR. Mos Order of Lenin and Order of Labor Red Banner Higher Tech School im Bauman), 150 copies. Bibliography: pp 26-27 (20 titles) (KL, 49-59, 139)

VAYNIKHOVICH, S., inzh.

If the profile of gear-wheel teeth could be changed.
NTO 3 no.11:17 N '61. (MIRA 14:10)

1. Zavod "Manometr", chlen Nauchno-tehnicheskogo obshchestva
zavoda.

(Gearing)

RYVKIN, A.I., zasluzhenny vrach USSR; TSVIK, S.I.; VAYNIKHOVICH, S.N.

Clinical and hematological peculiarities of acute leukemia. Vrach.
delo no.5:465-467 My '59. (MIRA 12:12)

1. Nikolayevskaya oblastnaya bol'nitsa.
(LEUKEMIA)

VAYNIKHOVICH S. I.

Designing gear cutting tools for low-module gear wheels with
cycloid engagement. Priborostroenie no.10:24-26 0 '57.

(MIRA 10:11)

(Clockmaking and watchmaking) (Gear cutting)

ACCESSION NR: AP4037247

S/0208/64/004/003/0405/0425

AUTHOR: Vaynikko, G. M. (Tartu)

TITLE: Asymptotic estimates of error of projection methods in the eigenvalue problem

SOURCE: Zhurnal vysshislitel'noy matematiki i matematicheskoy fiziki, v. 4, no. 3, 1964, 405-425

TOPIC TAGS: asymptotic error estimate, error estimate, projection method, Bubnov-Galerkin method, eigenvalue problem, elliptic differential equation

ABSTRACT: The problem of determining the estimate of error of the projection methods (methods of the Galerkin type) for the approximate determination of the eigenvalues and eigenelements of the equation

$$u - \mu Tu = 0, \tag{1}$$

where T is a continuous linear operator in the separable Hilbert

Card 1/3.

ACCESSION NR: AP4037247

space H , is analyzed for the case when the eigenvalue μ_0 of the equation is an h -th order pole of the resolvent equation. The estimate of error of the projection method is determined with the assumption that the (μ_n) and (u_n) determined by this method are such that $\mu_n \rightarrow \mu_0$ when $n \rightarrow \infty$. The estimate of error of the method is presented for the case when the operator T is self-adjoint in the space $H_n = H_n^i (n = 1, 2, \dots)$ (H_n and H_n^i are sequences of subspaces of H of equal dimensions). In the same space H , a linear equation

$$\Lambda u + Ku = \mu Tu \quad (2)$$

is studied, where Λ is a self-adjoint positive definite operator and operators K and T are such that $\Lambda^{-1}K$ and $\Lambda^{-1}T$ are continuous operators in a special Hilbert space H_Λ . For the solution of equation (2) the Bubnov-Galerkin method is applied. It is shown how this problem can be reduced to the problem analyzed above. Estimates of error of the Bubnov-Galerkin methods for the solution of equation (2) are presented. The form of the estimates of error of the method is analyzed in the case where, as the sequence (U_i) , a system of

Card 2/3

ACCESSION NR: AP4037247

eigenclements of an operator B similar to A is selected. As an example, a second order partial differential equation of the elliptic type is studied in a bounded m-dimensional Euclidean space.

ASSOCIATION: none

SUBMITTED: 11Jul63

DATE ACQ: 09Jun64

ENCL: 00

SUB CODE: MA

NO REF SOV: 009

OTHER: 001

Card 3/3

L 22017-66 EWT(a) IJP(c)

ACC NR: AP6005005

SOURCE CODE: UR/0208/66/006/001/0035/0042

AUTHOR: Vaynikko, G. (Tartu)

ORG: none

TITLE: Convergence of the collocation method for nonlinear differential equations

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 6, no. 1, 1966, 35-42

TOPIC TAGS: differential equation, approximation calculation, approximate solution, nonlinear differential equation, nonlinear operator, approximation convergence

ABSTRACT: The author treats the approximate solution of

$$v = Tv, \quad (1)$$

in Banach space B, where T is a nonlinear completely continuous operator. He proves various existence, convergence, and uniqueness theorems for his approximation

$$v = T_n v, \quad (2)$$

(where T_n is in some sense close to T) applying these results to nonlinear differential equations. His methods are generalizations and extensions of those of his previous work (O skhodimosti i ustoychivosti metoda kollokatsii. Differ. ur-niya, 1965, 1, No. 2, 244-254) and those of M. A. Krasnosel'skiy (Topologicheskiye metody

Card 1/2

UDC: 518:517.948

L 22017-66

ACC NR: AP6005005

v teorii nelineynykh integral'nykh uravneniy. M., Gostekhizdat, 1956). Orig. art.
has: 27 formulas.

SUB CODE: 12/ SUBM DATE: 08Mar65/ ORIG REF: 005

Card 2/2

the associated eigenvalue problem (by use of ... his results with

applications to ...

Krylov, G.S.,

$$u^{IV} - (a(s)u')' + b(s)u = \mu[(c(s)u')' + d(s)u], \quad (2)$$
$$u(0) = u(1) = u''(0) = u''(1) = 0,$$

EX-100

ACCESSION NR: AP5020288

Orig. art. no: 10 FORM 148

ASSOCIATION: none

SEE PAGE 14

NO REF. TO

L 34053-66 - EWT(d) - IJP(c)

ACC NR: AP6025470

SOURCE CODE: UR/0140/66/000/002/0037/0045

AUTHOR: Vaynikko, G. M. (Tartu)

ORG: none

30
B

TITLE: Rate of convergence of certain Galerkin-type approximation methods in the eigenvalue problem (Expansion of a dissertation given at Tartu in 1964, "Precision of Galerkin-type methods")

SOURCE: IVUZ. Matematika, no. 2, 1966, 37-45

TOPIC TAGS: approximation convergence, eigenvalue, ordinary differential equation

ABSTRACT: Some earlier results on the rate of convergence of Galerkin-type methods in the eigenvalue problem for second-order equations are applied to more general type equations. Results of this paper show (at least for ordinary differential equations) that these methods converge in the eigenvalue problem with at least the same rate as the Ritz and Bubnov-Galerkin methods and appear to be useful where the latter methods cannot be justified: e.g., when the equation has no positive, definite, principal part. The Galerkin-Petrov (G-P) method is given for the approximate solution of the equation $Lu = \lambda Mu$, where λ is the eigenvalue and u is the characteristic element. Under certain conditions the method reduces to the least squares method.

Card 1/2

UDC: 519.34

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L 34053-66

ACC NR: AP6025470

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The G-P method is treated extensively as a projection method, and a theorem is given which indicates its convergence rate. The method is then applied to an ordinary differential equation which is integrated under homogeneous boundary conditions.

The convergence rate of the proposed method is comparable to that of the Ritz method insofar as eigenvalues are concerned but is slower for eigenfunctions, although the method provides convergence for derivatives of higher order. Orig. art. has: 17 formulas. [JPRS: 35,883]

SUB CODE: 05 / SUBM DATE: 14Oct64 / ORIG REF: 008

Card 2/2 *Jp*

BARENBOYM, I.Yu., inh.; PUDROVA, Ye.S., inh.; KOLOMCOYSEV, E.B., inh.;
PIDZHIYANTS, S.A., inh.; VAINKOF, P.F., inh.; RABZEVICH, Ye.N.,
inh.; SPITKOVSKIY, S.A., inh.

Planning and directing the construction of a bridge by a dash-
and-dot work organization chart. Transp. stroit. 15 no.2:14-18
F 165. (MIRA 1803)

1. Mostostroy No.1 (for Kolomcoytsev). 2. Nauchno-issledovatel'skiy
institut stroitel'nogo proizvodstva Gosstroya UkrSSR (for Vaynkof).
3. Mostootryad No.2 Mostostroya No.1 (for Spitkovskiy).

VAYNKOF, Ya.F., kand. tekhn. nauk; LUYK, I.A.; BOLIYEV, I.B.,
inzh.; KOLMAKOV, V.M., inzh.; LINETSKIY, G.I., inzh.;
MIRKIN, F.S., inzh.; POLYANSKIY, S.K., inzh.

[Album for the technical maintenance of the ZIF-55 compres-
sor station] Al'bom tekhnicheskogo obsluzhivaniia kompres-
sornoi stantsii ZIF-55. Moskva, Stroiizdat, 1964. 120 p.
(MIRA 18:6)

1. Kiev. Nauchno-issledovatel'skiy institut stroitel'nogo
proizvodstva.

VAYNKOF, Ya.F., kand. tekhn. nauk; LUYK, I.A.; BOLIYEV, Ch.B.,
inzh.; KOIMAKOV, V.M., inzh.; LINETSKIY, G.I., inzh.;
MIRKIN, F.S., inzh.; POLYANSKIY, S.K., inzh.;
RYSHKOVSKIY, V.N., inzh.

[Album for the technical maintenance of the K-124 truck
crane] Al'bom tekhnicheskogo obsluzhivaniya pnevmokoles-
nogo krana K-124. Moskva, Stroiizdat, 1965. 126 p.
(MIRA 18:4)

1. Nauchno-issledovatel'skiy institut stroitel'nogo proizvod-
stva.

LINETSKIY, G.I.; VAYNKOF, Ya.F., kand. tekhn. nauk; MIRKIN, F.S.;
LUYK, I.A., kand. tekhn. nauk; BOLIYEV, Ch.B.; KOLMAKOV,
V.M.; POLYANSKIY, S.K.; RYSHKOVSKIY, V.N.; RYAZANTSEVA,
L.I., red.

[Album on the technical maintenance of the E-1252 excavator]
Al'bom tekhnicheskogo obsluzhivaniya ekskavatorov E-1252. Mo-
skva, Stroizdat, 1965. 112 p. (MLRA 18:8)

1. Kiev. Nauchno-issledovatel'skiy institut organizatsii i
mekhanizatsii stroitel'nogo proizvodstva.

VAYNKOF, Ya.F., kand. tekhn. nauk; KVITKO, A.K., kand. tekhn. nauk

Dynamics of the intermediate drive of a mine conveyor.
Nauch. trudy Mosk. inst. radioelek. i gor. elektromekh.
no. 49 pt. 2:155-158 ' 64 (MIRA 19:1)

Calculating the mass of a vibrated material in the design
of vibrator parameters. Ibid.:159-163.

Fuel Abstracts
May 1954
Natural Solid
Fuels: Preparation

3454. MODERNIZATION OF THE TRUSS PULVERIZED FUEL SEPARATOR.
Vaizel, L.E., Vainitskii, S.R., Gachegov, A.I. and Gladnikov, I.V.
(Elekt. Sta. (Pwr Sta., Moscow), June 1953, vol. 21, 8-10). With screen
R88 the efficiency of the separator was found to be high and the
aerodynamic resistance low. Owing to the low velocity of the aerated dust
flow the elements of the separator are subjected to little wear and tear.
The use of the separator for ordinary and lean coal permitted an increase
in mill productivity and a reduction in power consumption. B.E.A.

REINE, V. T. DR.; VAYNITSEV, V. M., ENG.

Electric Lines

Longitudinal capacity compensation of a transmission line. Elektrichestvo no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 ~~1953~~, Uncl.

VAYNKOF, Ya. F.

Cand Tech Sci - (diss) "Investigation of the vibration method of cleaning out dumpcars under conditions of open-cut work." Moscow, 1961. 16 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Mining Inst imeni I. V. Stalin); 200 copies; free; (KL, 6-61 sup, 214)

VAYNKOF, V.Ya., kand. tekhn. nauk; LUYK, I.A., kand. tekhn. nauk;
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V.G., inzh.; KOPELYANSKIY, G.D., kand. tekhn. nauk.; KORETSKIY, M.M., inzh.;
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A.T., inzh.; SIMKIN, A.Kh., inzh.; SURDUTOVICH, I.N., inzh.; TROFIMOV,
V.I., inzh.; FEFER, M.M., inzh.; FIALKOVSKIY, A.M., inzh.; FRISHMAN,
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S.I., inzh., red.; KAUFMAN, B.N., kand. tekhn. nauk, red.; LISTOPADOV,
N.P., inzh., red.; MENDELEVICH, I.R., inzh., red. [deceased];
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AGALINA, M.S.... (continued) Card 2.

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ACC NR: AR7004302

(A, N)

SOURCE CODE: UR/0271/66/000/011/A016/A016

AUTHOR: Vayno, A. A.

TITLE: Investigation of semiconductor shear strain gages as pressure transducers

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 11A123

REF SOURCE: Sb. nauchno-tekhn. statey. N.-i. elektrotekhn. in-t (Tallin), vyp. 1, 1965, 193-210

TOPIC TAGS: strain gage, shear stress

ABSTRACT: The principle of operation, theory, manufacturing features, and experimental data of rigid, single-crystal semiconductor shear strain gages are described. The strain gages were used as sensors in the transducers of hydrostatic pressures. Attention was paid to the transducer sensitivity and its temperature stabilization. The strain gages were fabricated from single-crystal plates of Ge and Si oriented in the (111)-plane. Causes of compensation for temperature error are described. Also, the effect of dissipation power on transducer operation was investigated. Five figures. Bibliography of 7 titles. O. Sh. [Translation of abstract]

SUB CODE: 09, 13

Card 1/1

UDC: 621.398.694:531.7

9.3230

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SOV/109-4-8-24/35

AUTHORS: Shirman, Ya.D. and Vaynoris, Z.A.

TITLE: A System of Anisotropically Conducting Planes as the Simplest Model of the Delay Lines with Distributed Parameters

PERIODICAL: Radiotekhnika i elektronika, 1959, Vol 4, Nr 8, pp 1368 - 1376 (USSR)

ABSTRACT: Two delay lines with distributed parameters are shown in Figure 1; one of these, in Figure 1a, is cylindrical, while the other is rectangular or flat (see Figure 1b). Each line comprises a winding in the form of a helix and an anisotropically conducting screen. In order to obtain long delays and small losses, it is necessary that the screen should have no conductance in the direction of the turns of the helix. This property can be taken into account in the design of a delay line by employing a simple model consisting of four anisotropically conducting planes, situated in a homogeneous isotropic dielectric (see Figure 2a). This model is not the only possible one; in fact, a simpler model such as shown in Figure 2b can be devised. The analysis of the

Card1/4

4

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SOV/109-4-8-24/35

A System of Anisotropically Conducting Planes as the Simplest Model of the Delay Lines with Distributed Parameters

plane systems shown in Figures 2 is of some interest apart from its applicability to the design of the delay lines. First, the system of Figure 2a is considered and the coordinate system employed is that indicated in the figure. It is shown that the dispersion equation for the system is:

$$\varphi(k) = \frac{1}{2\pi} kv_0 \operatorname{tg} \alpha e^{-\frac{ka}{2}} \sqrt{\frac{\operatorname{sh} kb}{\operatorname{sh} k(a+b)}} = f \quad (27)$$

where v_0 is the velocity of light in the dielectric, k is given by Eq (2) and v_ϕ is the phase velocity of the delayed wave. For the system of Figure 2b, Eq (27) is simplified and written as Eq (28). Two graphs of Eq (27), as a function of k , are shown in Figure 3.

Card2/4

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SOV/109-4-8-24/35

A System of Anisotropically Conducting Planes as the Simplest Model of the Delay Lines with Distributed Parameters

From these, it is possible to determine k for a particular frequency. The phase velocity is then evaluated from Eq (29) and the delay is found from Eq (30). On the basis of the curves of Figure 3, it was possible to construct the delay curves as a function of frequency; these are shown in Figure 4. For the case of very low frequencies, the dispersion equation is simplified and can be written as Eq (31), while the delay is expressed by Eq (34). For the intermediate frequencies, Eq (27) can be written as Eq (32), while the delay is expressed by Eq (35). On the other hand, for the very high frequencies, the dispersion equation is written as Eq (33) and the delay is expressed by Eq (36). From these equations, it is found that at very low frequencies, the delay of a system of four anisotropically conducting planes is a maximum; the value of the delay can be very high (as much as 1 000). In the region of very high frequencies, the delay is independent of the dimensions a and b and is determined only by the angle α . In the intermediate-frequency region, the

Card3/4

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SOV/109-4-8-24/35

A System of Anisotropically Conducting Planes as the Simplest Model of the Delay Lines with Distributed Parameters

delay is inversely proportional to $f^{-1/3}$ and is independent of a . The shape of the delay curves, as a function of frequency, can be explained by considering the structure of the electromagnetic field in the delay system. Curves representing the field distribution are indicated in Figures 6 and 7. There are 7 figures and 2 references, 1 of which is English and 1 Soviet; the Soviet reference is translated from English.

SUBMITTED: May 26, 1958

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Dupuytren's contracture. Ortop., travm. i protez. 25 no.11:
63-64 N '64. (MIRA 18:11)

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Ortop., travm.i protez. 23 no.11:66-68 N '62. (MIRA 16:4)

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PROCESSED AND PRIORITY INDEX

3

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J. J. Bikerman

METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Some problems in the mechanical heart theory. Med.prom. 10 no.2:
14-19 Ap-Je '56. (MLRA 9:8)

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(PERFUSION PUMP)
(BLOOD--CIRCULATION)

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Some problems in the theory of the mechanical heart. Med.prom. 10
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Apparatus for artificial circulation with automatic electropneumatic
installation 171

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SURGICAL Equipment and Instruments and Experience in Their Use) NO. 1,
Moscow, 1957 A collection of Papers of the Scientific Research Inst.
for Experimental Surgical Equipment and Instruments.

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Apparatus for artificial blood circulation. Med.prom. 11 no.2:
50-55 D '57. (MIRA 11:2)

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[with summary in English]. Eksper.khir. 3 no.3:9-14 My-Je '58
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extracorporeal circ., clin. model & principles of
operation (Rus))

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KOZLOV, Yu.G., VAYNRIB, Ye.A., FRID, Ye.A.

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12 no.8:48-50 Ag '58 (MIRA 11:9)

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VAYNRIB, Ye.A.,kand.fiz.-mat.nauk

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(Perfusion pump (Heart)) (MIRA 11:5)

ANAN'YEV, M.G.; VAYNRIB, Ye.A.; VISHNEVSKIY, A.A.; KOZLOV, Yu.G.; LEVITSKAYA,
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(HEART, MECHANICAL, equipment and supplies)

KHAZAN, A.D.; VAYNRIB, Ye.A.

Transducers for blood flow volume velocity. Med. prom. 13 no.8:
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khirurgicheskoy apparatury i instrumentov.
(MEDICAL INSTRUMENTS AND APPARATUS)

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(PERFUSION PUMP (HEART))

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KASHCHEVSKAYA, L.A.; LEVITSKAYA, L.A.; GOL'DINA, B.G.; SUPKO,
N.S.; IVANOVA, L.N.; UNIK, V.I.

"Artificial kidney" apparatus built by the Research Institute for
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(ARTIFICIAL KIDNEY)

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khirurgicheskoy apparatury i instrumentov.

(ARTIFICIAL KIDNEY)

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CLASSIFICATION

He uses the method of least squares

and, on the other hand, to make more precise the estimates of variance of

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VAYNROYKH, Ya.B. [Vainroikh, IA.B.], inzh.

Electric rake. Mekh. sil'. hosp. 12 no. 2:29 F '61. (MIRA 14:4)
(Farm equipment)

VAYNROYKH, Ya.B.

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VAYNROYKH, Ya.B., inzh.

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(Tractors--Maintenance and repair)

YAKOVENKO, G.I. [Iakovenko, H.I.], kand.med.nauk; VAYNRUB, E.M. [Vainrub, E.M.], kand.med.nauk; PRITALYUK, M.S. [Prytaliuk, M.S.], nauchnyy sotrudnik

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[Vainrub, E.M.], kand.med.nauk; YAKOVENKO, G.I. [Iakovenko, H.I.]
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Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ
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1ST AND 2ND ORDERS PROCESSES AND PROPERTIES INDEX

7-11-98

Gas-fired annular kiln for firing magnesite products
 L. G. VAINRUB AND A. M. GATOVSKII. *Ogneupory*, 11 (1948) 3-11 (1048).—Details are given of a reconstructed gas-fired annular kiln for firing magnesite brick at 1580° to 1600°C. New features are (1) the construction of thresholds instead of intermediate walls, (2) arrangement of the bricks to be fired on the thresholds up to the roof, (3) suspension flat arch, and (4) horizontal flow of gases. Advantages of the reconstructed furnace are as follows: (1) rate of firing is increased 15%; (2) output of the kiln is increased 40%; and (3) specific consumption of fuel is reduced 30%. This type of kiln can be used for firing highly refractory products in cases where it is impossible to use shaft furnaces. B.Z.K.